

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092620\
 Data File : VU040316.D
 Acq On : 25 Sep 2020 21:43
 Operator : SY/MD
 Sample : L4139-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BG494

Manual Integrations
 APPROVED

MMDadoda
 9/28/2020 11:07:04 AM

Quant Time: Sep 28 09:39:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 06:44:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	136879	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	138024	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	71623	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	32801	4.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.80%
7) Chloroethane-d5	1.92	69	31675	5.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.80%
11) 1,1-Dichloroethene-d2	2.58	63	54230	2.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.60%#
20) 2-Butanone-d5	4.67	46	151282	50.61	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.22%
24) Chloroform-d	5.08	84	75411	4.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.40%
26) 1,2-Dichloroethane-d4	5.73	65	46299	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
32) Benzene-d6	5.75	84	142871	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
36) 1,2-Dichloropropane-d6	6.70	67	47969	4.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.20%
41) Toluene-d8	7.91	98	124883	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
43) trans-1,3-Dichloropropene-	8.19	79	18238	3.74	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.80%
46) 2-Hexanone-d5	8.64	63	116882	50.57	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.14%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	44554	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	52131	4.50	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.53	50	1396	0.107	ug/L	97
5) Vinyl chloride	1.61	62	15748	1.194	ug/L	100
8) Chloroethane	1.94	64	408779	51.589	ug/L	100
13) Acetone	2.68	43	50404	18.215	ug/L	96
14) Carbon disulfide	2.91	76	273517m	8.053	ug/L	
19) 1,1-Dichloroethane	3.89	63	52199	2.225	ug/L	98
21) 2-Butanone	4.75	43	32665	7.230	ug/L	91
22) cis-1,2-Dichloroethene	4.68	96	28402	2.318	ug/L	98
29) 1,1,1-Trichloroethane	5.33	97	2583	0.119	ug/L	98
30) Cyclohexane	5.40	56	87181	4.148	ug/L	96
33) Benzene	5.78	78	30464044m	616.967	ug/L	
35) Methylcyclohexane	6.77	83	100591	4.960	ug/L	91
40) 4-Methyl-2-pentanone	7.82	43	199415	18.178	ug/L	99
42) Toluene	7.97	91	34546792m	679.379	ug/L	
51) Chlorobenzene	9.45	112	3554266	112.580	ug/L	99
52) Ethylbenzene	9.57	91	15051360	260.510	ug/L	98
53) m,p-Xylene	9.71	106	12617176	613.360	ug/L #	40

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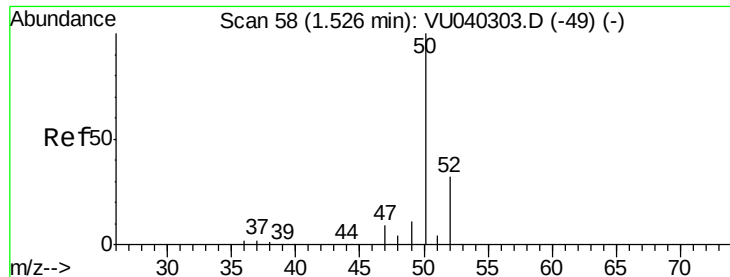
Manual Integrations
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Quant Time: Sep 28 09:39:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR083120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Sep 26 06:44:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.11	106	4382815	223.586	ug/L	100
56) Isopropylbenzene	10.48	105	953406	17.834	ug/L	99
62) 1,3-Dichlorobenzene	11.74	146	28339	1.083	ug/L	98
63) 1,4-Dichlorobenzene	11.83	146	229239	8.654	ug/L	98
65) 1,2-Dichlorobenzene	12.20	146	296365	11.700	ug/L	98
68) 1,2,4-trichlorobenzene	13.83	180	1924	0.121	ug/L #	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3

Chloromethane

Concen: 0.107 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

ClientSampleId :

BG494

Tot Ion: 50 Resp: 1396

Ion Ratio Lower Upper

50 100

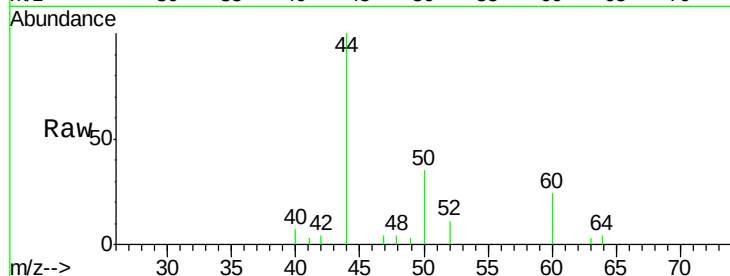
52 31.0 22.8 42.4

Manual Integrations

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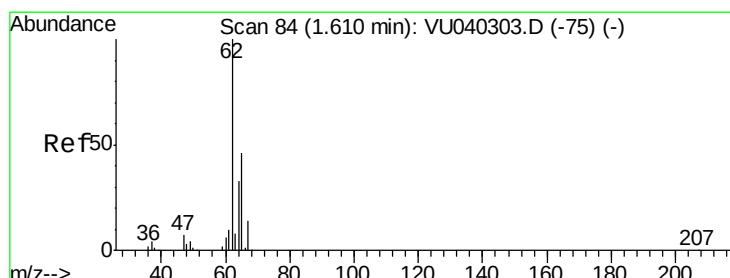
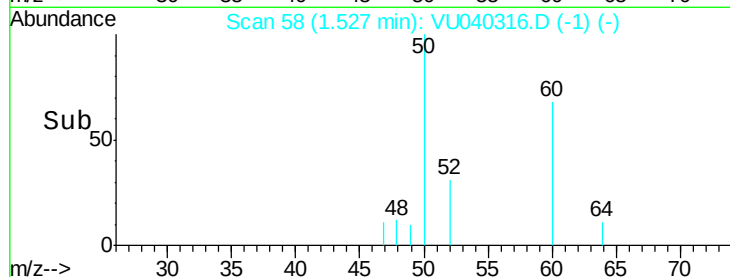
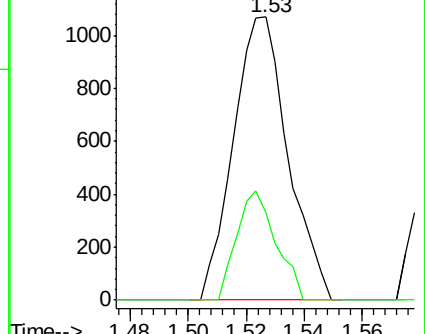
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Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 1.194 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU040316.D

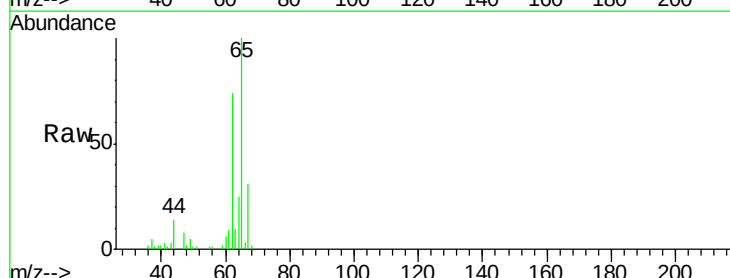
Acq: 25 Sep 2020 21:43

Tgt Ion: 62 Resp: 15748

Ion Ratio Lower Upper

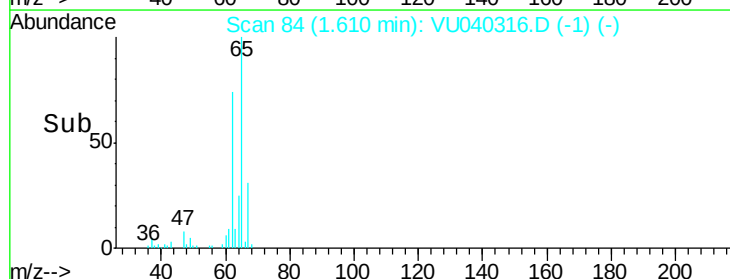
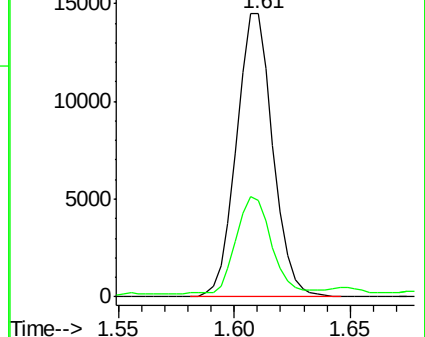
62 100

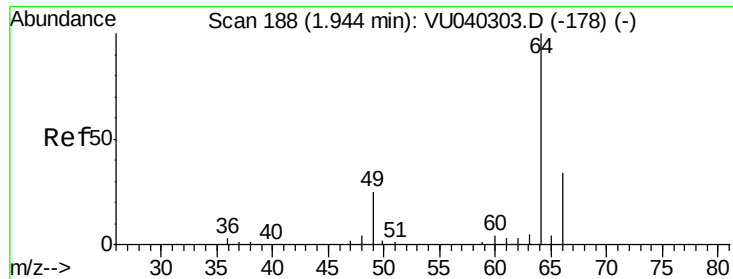
64 34.3 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





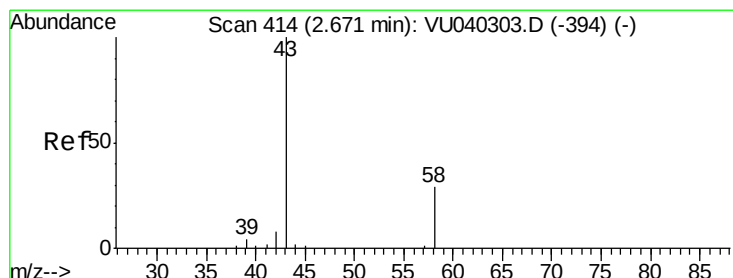
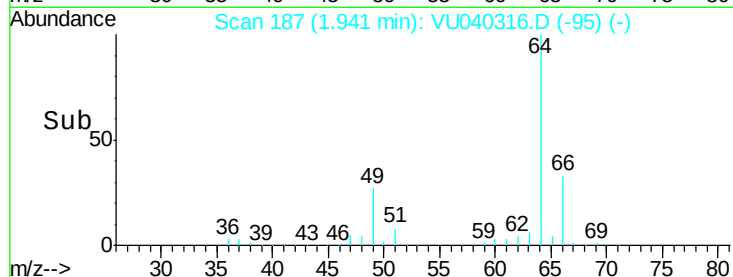
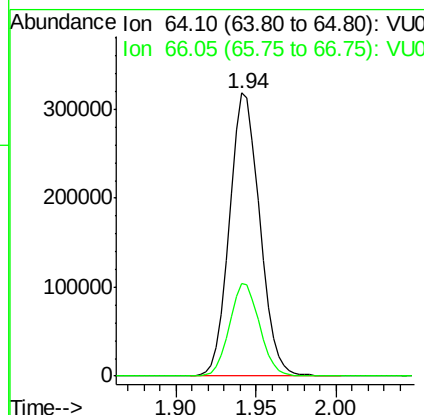
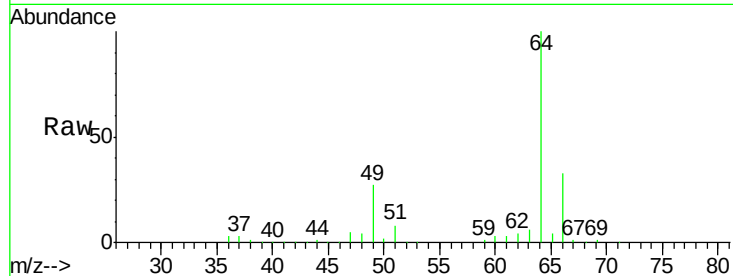
#8
Chloroethane
Concen: 51.589 ug/L
RT: 1.94 min Scan# 187
Delta R.T. -0.00 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Instrument :
MSVOA_U
ClientSampleId :
BG494

Tot Ion: 64 Resp: 408779
Ion Ratio Lower Upper
64 100
66 32.6 22.7 42.1

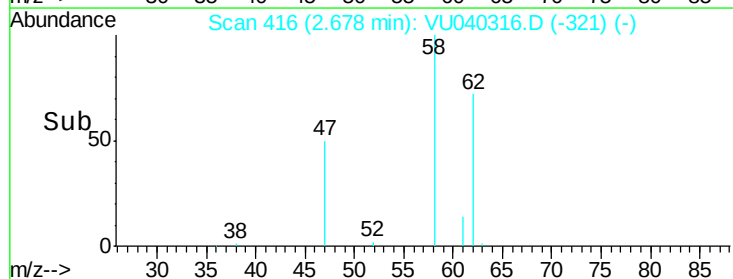
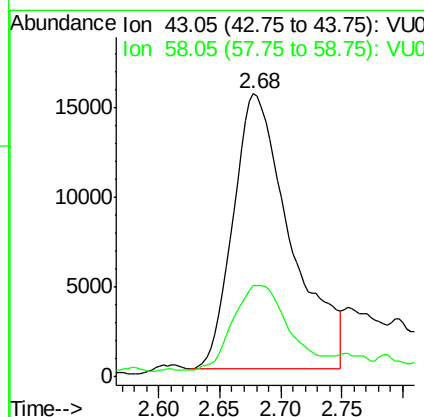
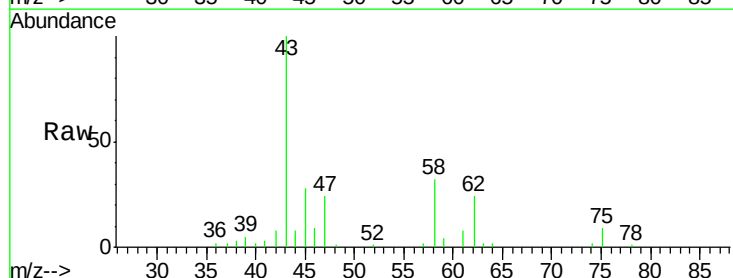
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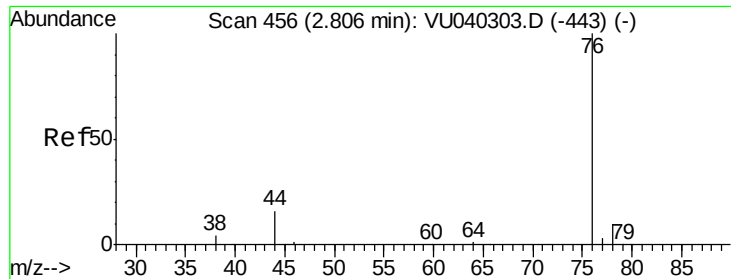
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#13
Acetone
Concen: 18.215 ug/L
RT: 2.68 min Scan# 416
Delta R.T. 0.01 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Tgt Ion: 43 Resp: 50404
Ion Ratio Lower Upper
43 100
58 29.6 0.0 55.4





#14

Carbon disulfide

Concen: 8.053 ug/L m

RT: 2.91 min Scan# 488

Delta R.T. 0.10 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

ClientSampleId :

BG494

Tot Ion: 76 Resp: 273517

Ion Ratio Lower Upper

76 100

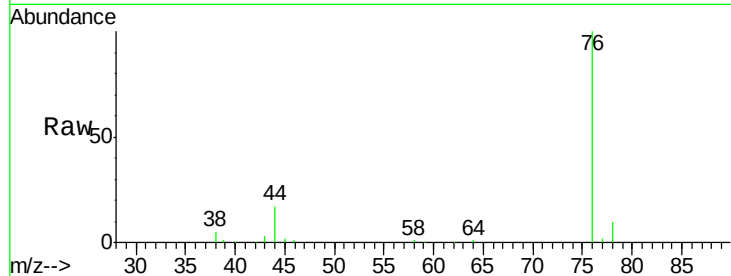
78 9.6 7.2 10.8

Manual Integrations

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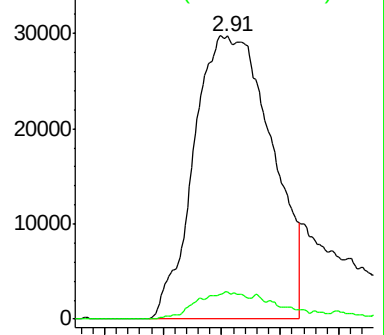
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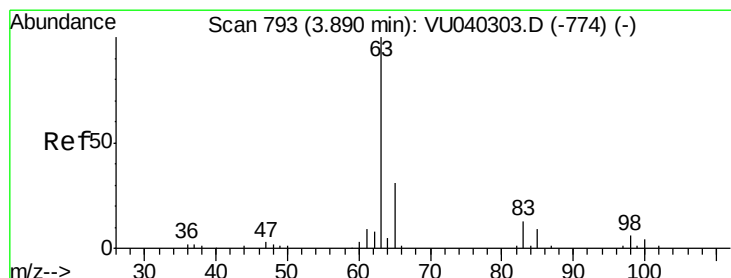
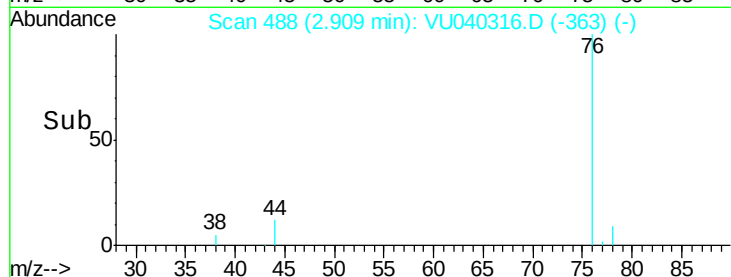


Abundance Ion 76.05 (75.75 to 76.75): VU040316.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VU040316.D (-363) (-)



Time-->



#19

1,1-Dichloroethane

Concen: 2.225 ug/L

RT: 3.89 min Scan# 793

Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

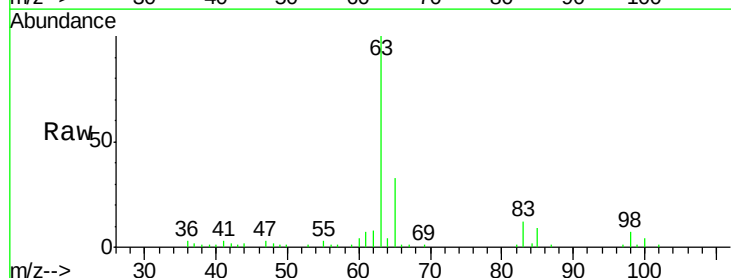
Tgt Ion: 63 Resp: 52199

Ion Ratio Lower Upper

63 100

65 32.5 22.2 41.2

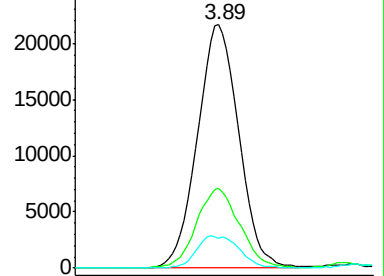
83 12.4 9.4 17.6



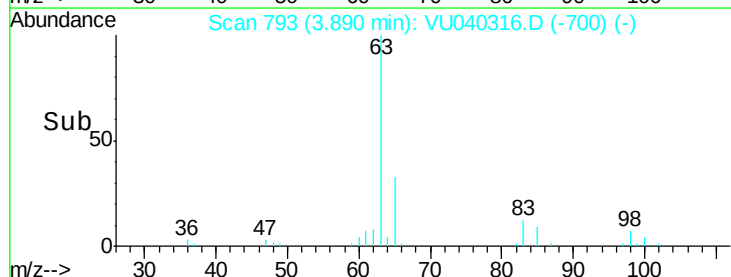
Abundance Ion 63.10 (62.80 to 63.80): VU040316.D (-700) (-)

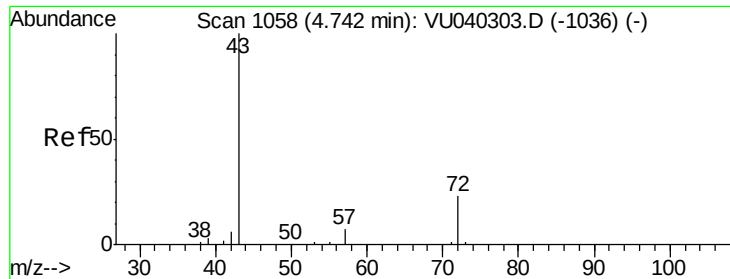
Ion 65.10 (64.80 to 65.80): VU040316.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VU040316.D (-700) (-)



Time-->





#21

2-Butanone

Concen: 7.230 ug/L

RT: 4.75 min Scan# 1059

Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

ClientSampled :

BG494

Tot Ion: 43 Resp: 32665

Ion Ratio Lower Upper

43 100

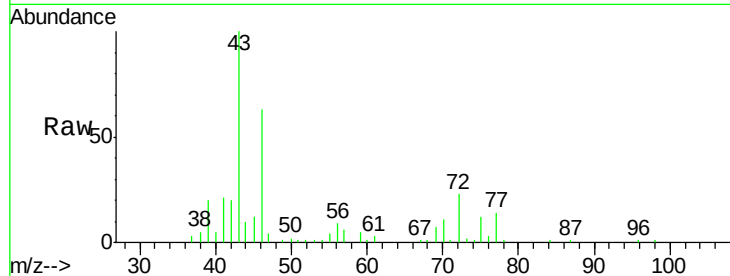
72 18.9 11.7 35.0

Manual Integrations

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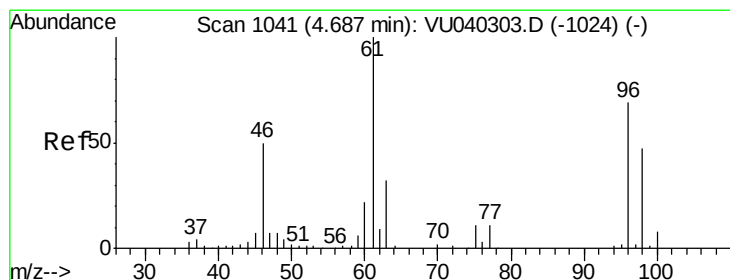
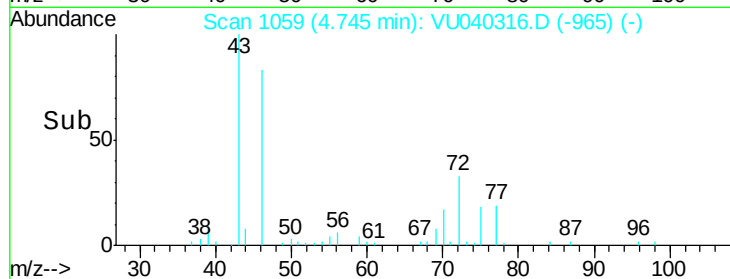
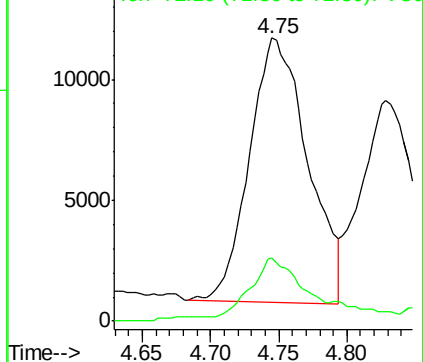
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Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 72.10 (71.80 to 72.80): VU0



#22

cis-1,2-Dichloroethene

Concen: 2.318 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. -0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

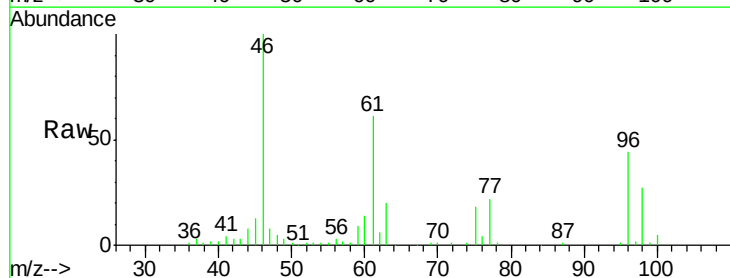
Tgt Ion: 96 Resp: 28402

Ion Ratio Lower Upper

96 100

61 138.6 98.8 183.4

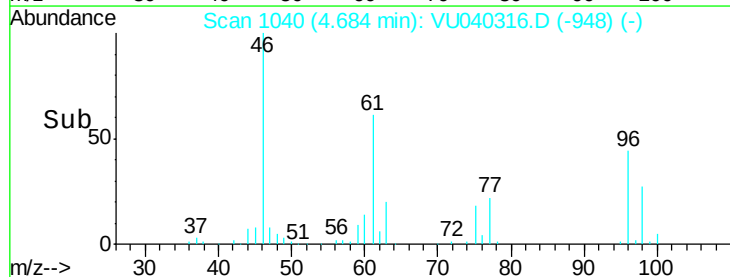
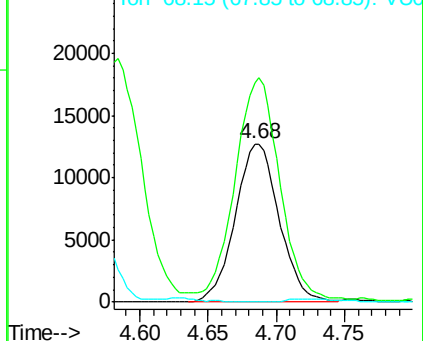
68 0.0 0.0 0.0

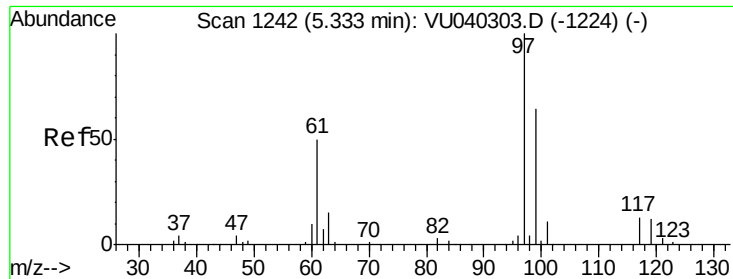


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0





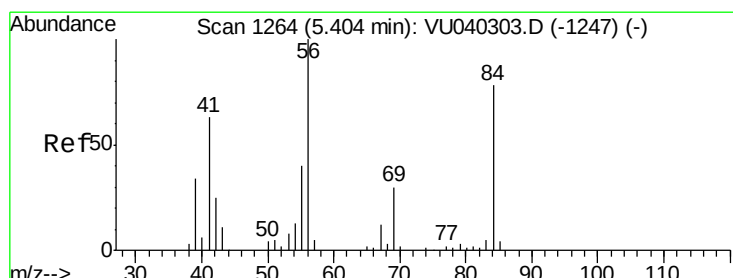
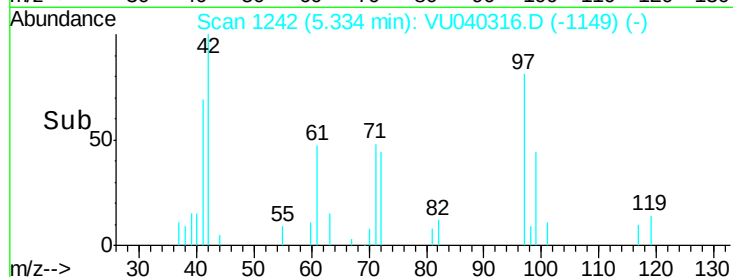
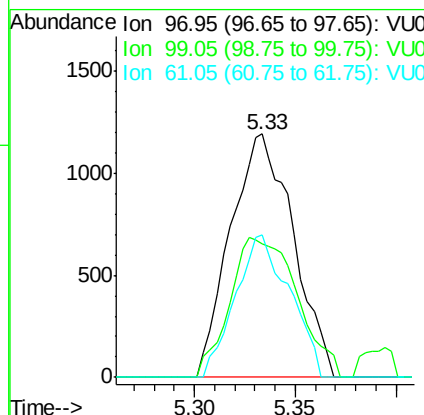
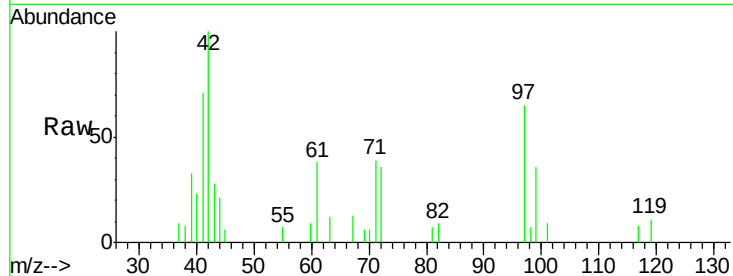
#29
1,1,1-Trichloroethane
Concen: 0.119 ug/L
RT: 5.33 min Scan# 1242
Delta R.T. 0.00 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Instrument :
MSVOA_U
ClientSampleId :
BG494

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.7	50.9	76.3
61	50.7	39.5	59.3

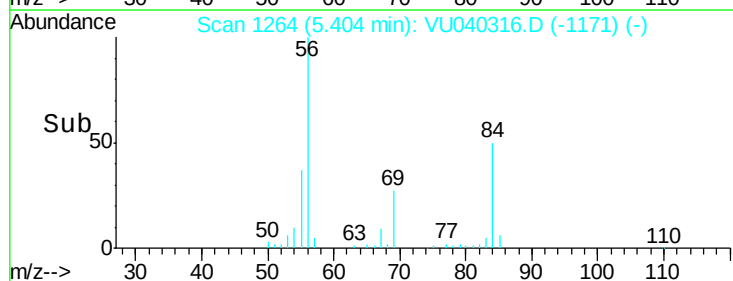
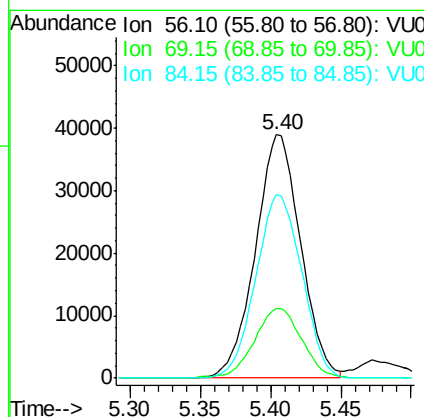
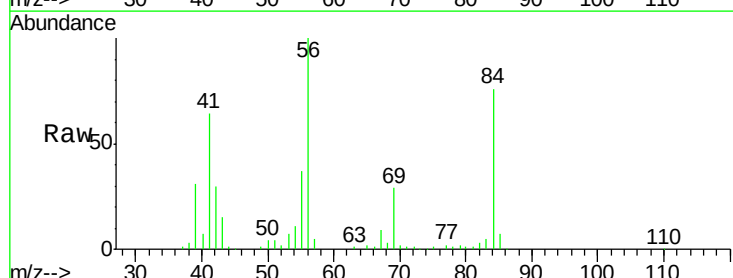
Manual Integrations
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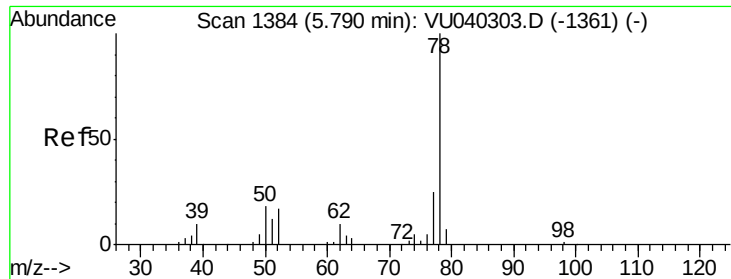
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#30
Cyclohexane
Concen: 4.148 ug/L
RT: 5.40 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.2	24.1	36.1
84	76.8	65.0	97.4





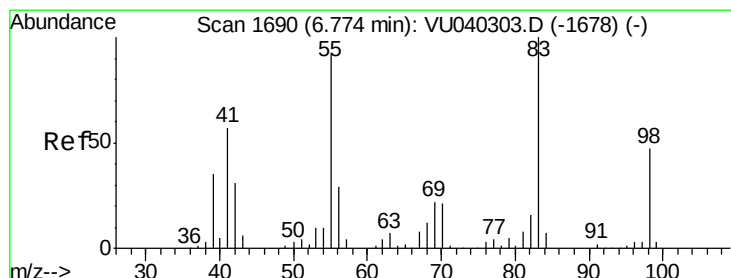
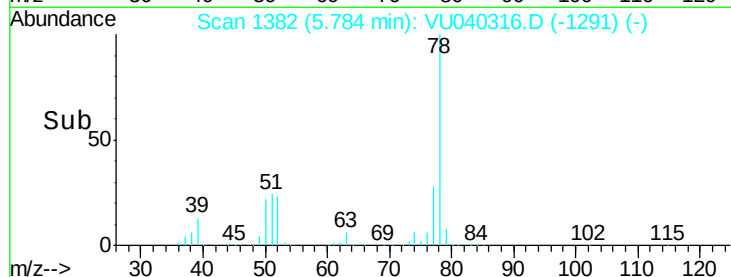
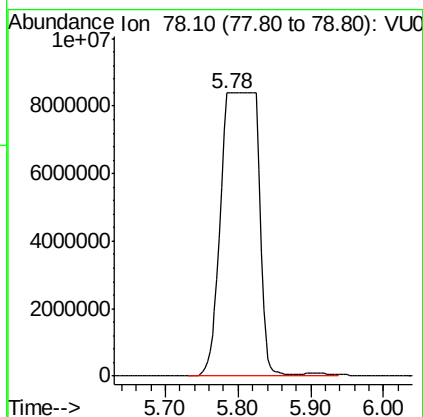
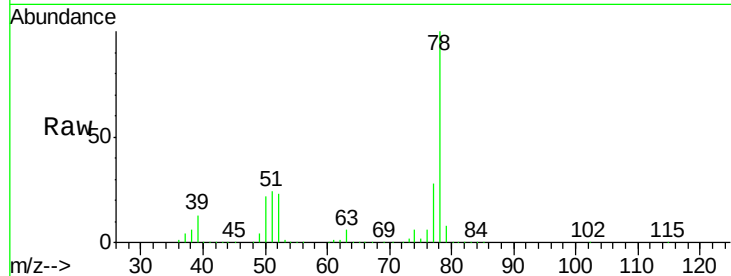
#33
Benzene
Concen: 616.967 ug/L m
RT: 5.78 min Scan# 1382
Delta R.T. -0.01 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Instrument :
MSVOA_U
ClientSampleId :
BG494

Tgt Ion: 78 Resp:30464044

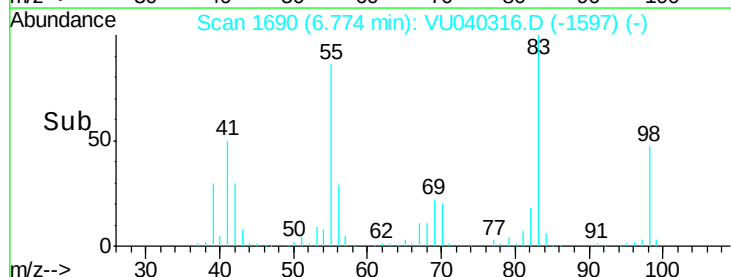
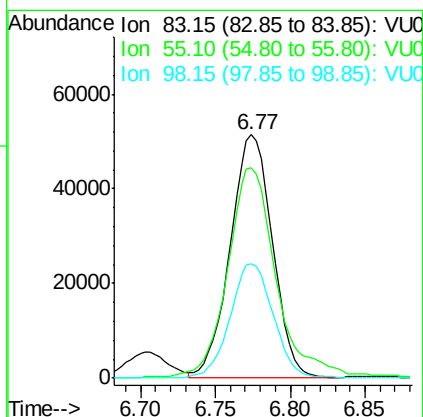
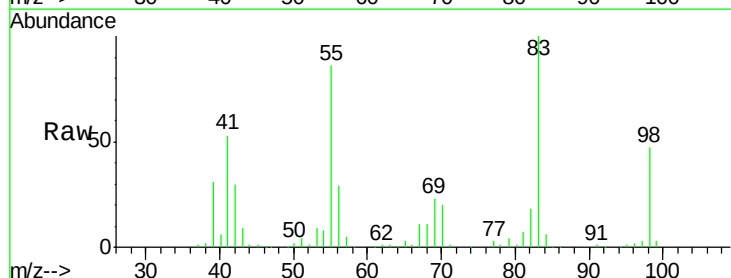
Manual Integrations
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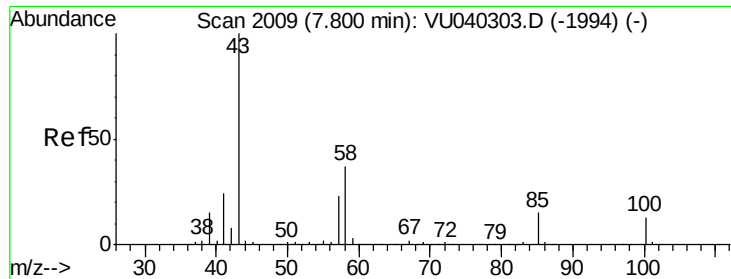
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#35
Methylcyclohexane
Concen: 4.960 ug/L
RT: 6.77 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Tgt Ion: 83 Resp: 100591
Ion Ratio Lower Upper
83 100
55 99.8 70.5 105.7
98 48.3 37.8 56.6





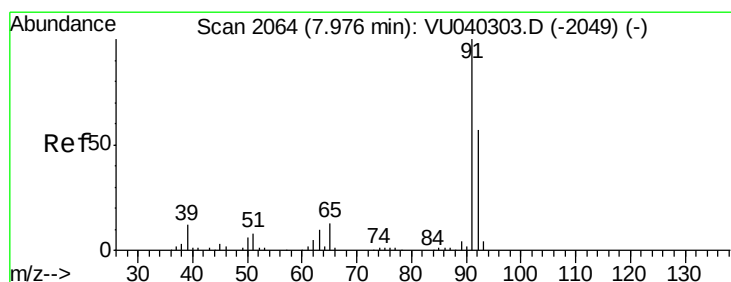
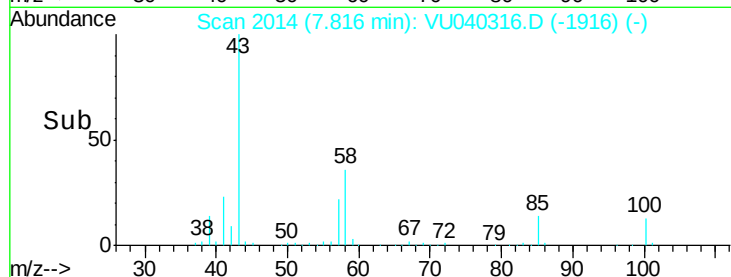
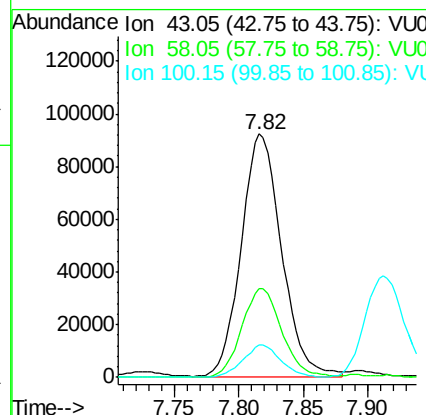
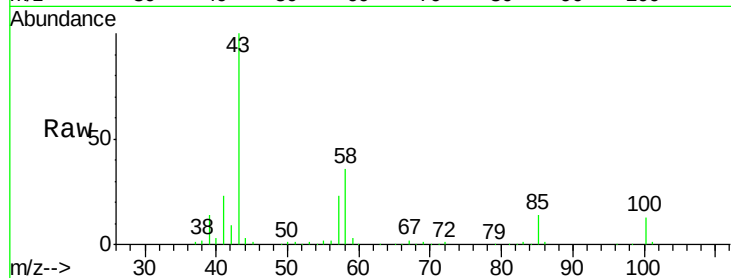
#40
4-Methyl-2-pentanone
Concen: 18.178 ug/L
RT: 7.82 min Scan# 2014
Delta R.T. 0.02 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Instrument :
MSVOA_U
ClientSampleId :
BG494

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.7	28.7	43.1
100	12.7	10.2	15.2

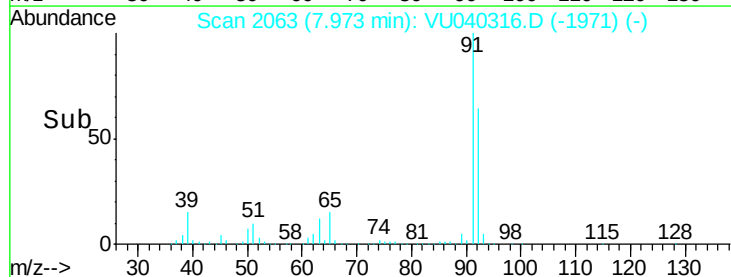
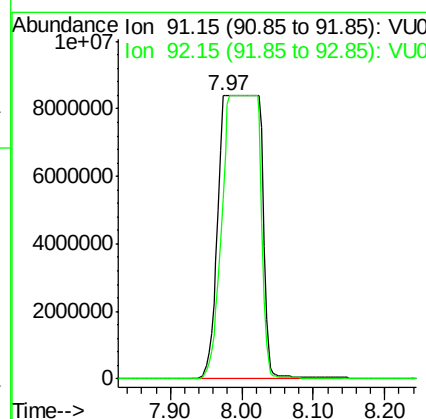
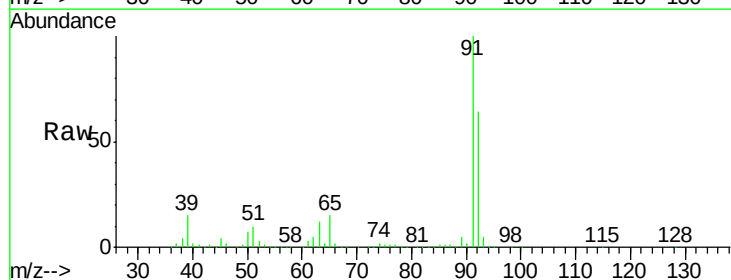
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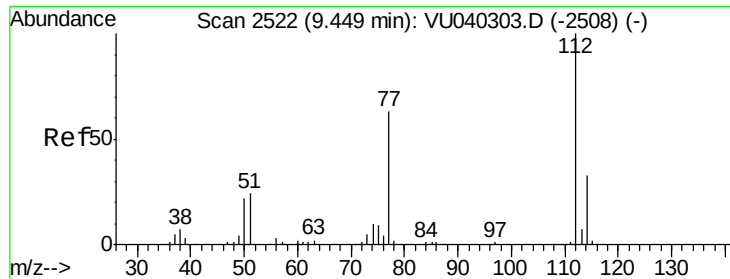
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9/28/2020 11:07:04 AM



#42
Toluene
Concen: 679.379 ug/L m
RT: 7.97 min Scan# 2063
Delta R.T. -0.00 min
Lab File: VU040316.D
Acq: 25 Sep 2020 21:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.6	40.7	75.5





#51

Chlorobenzene

Concen: 112.580 ug/L

RT: 9.45 min Scan# 2523

Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

ClientSampled :

BG494

Tot Ion:112 Resp: 3554266

Ion Ratio Lower Upper

112 100

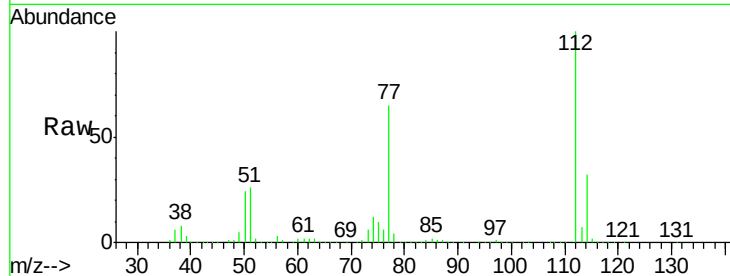
114 32.2 22.7 42.3

77 65.0 53.2 79.8

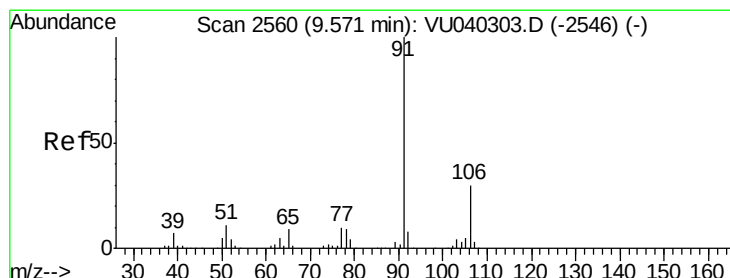
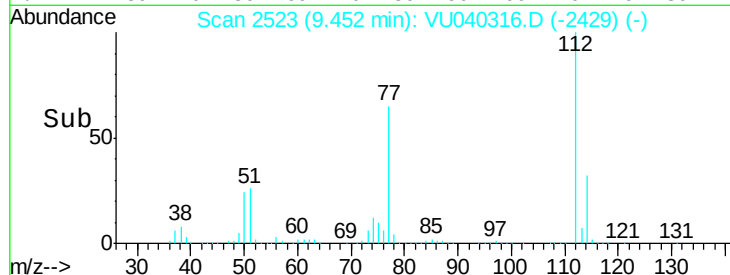
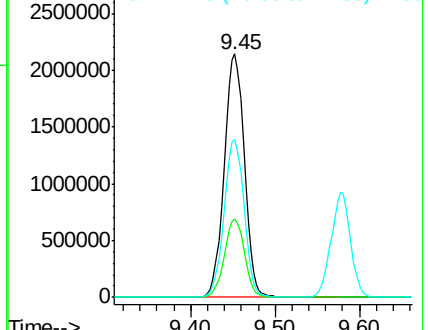
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Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 260.510 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU040316.D

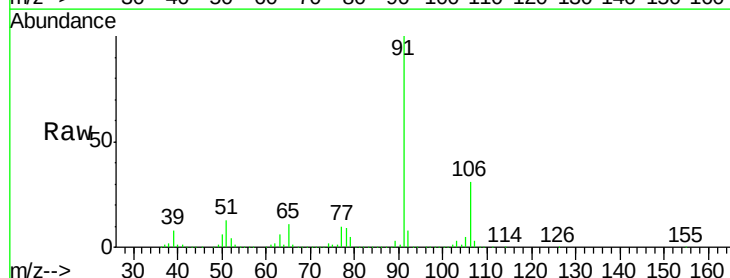
Acq: 25 Sep 2020 21:43

Tgt Ion: 91 Resp:15051360

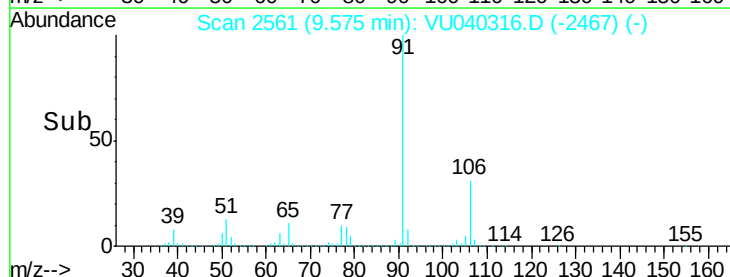
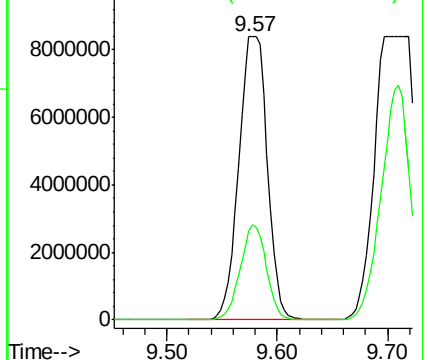
Ion Ratio Lower Upper

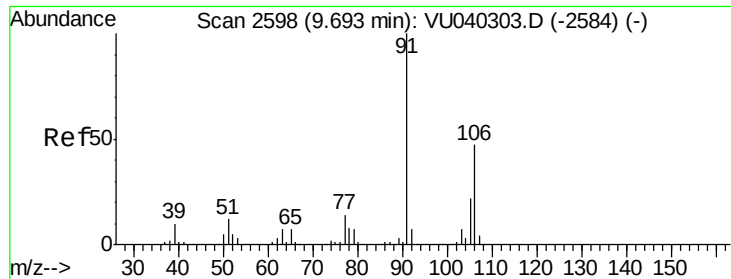
91 100

106 31.2 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): V
Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 613.360 ug/L

RT: 9.71 min Scan# 2603

Delta R.T. 0.02 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

ClientSampleId :

BG494

Tot Ion:106 Resp:12617176

Ion Ratio Lower Upper

106 100

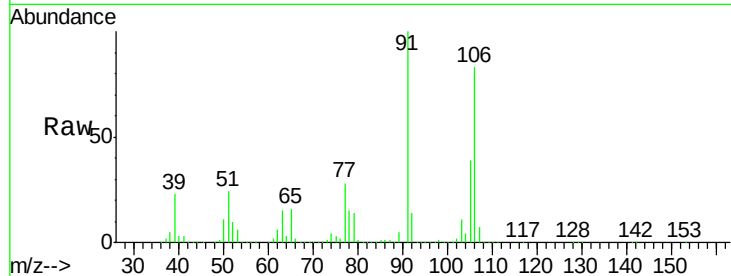
91 120.5 151.7 281.7#

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

1e+07

8000000

6000000

4000000

2000000

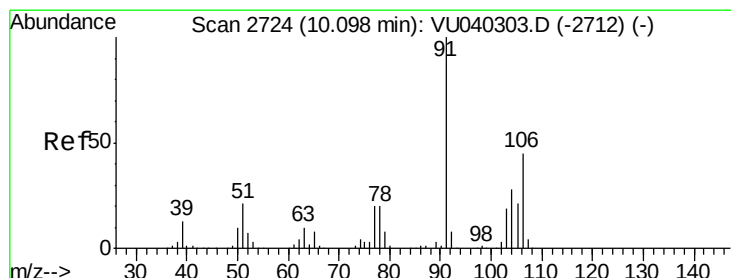
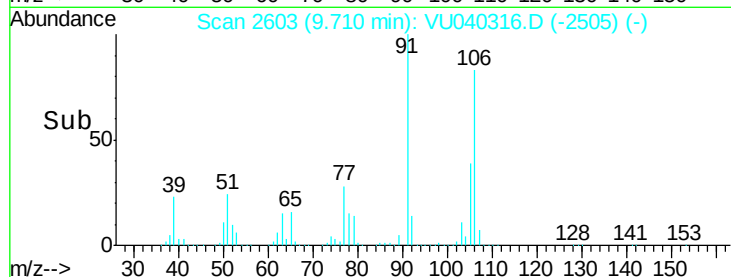
0

9.60

9.71

9.80

Time-->



#54

o-Xylene

Concen: 223.586 ug/L

RT: 10.11 min Scan# 2726

Delta R.T. 0.01 min

Lab File: VU040316.D

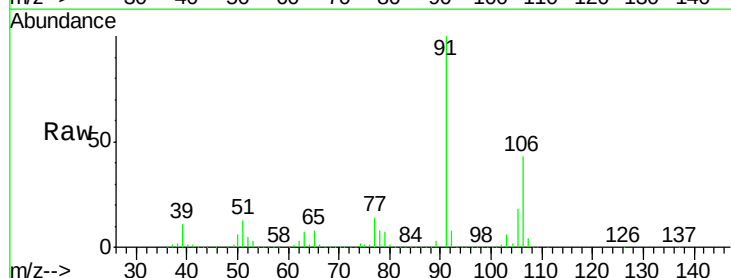
Acq: 25 Sep 2020 21:43

Tgt Ion:106 Resp: 4382815

Ion Ratio Lower Upper

106 100

91 229.9 160.8 298.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

6000000

4000000

2000000

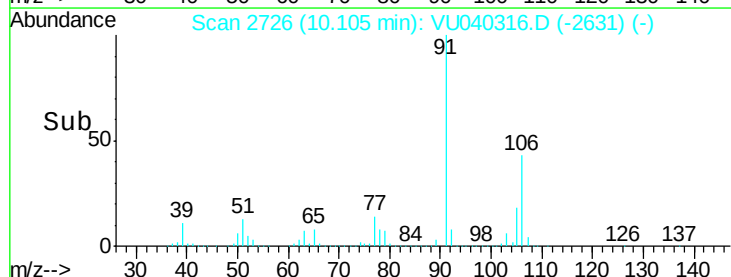
0

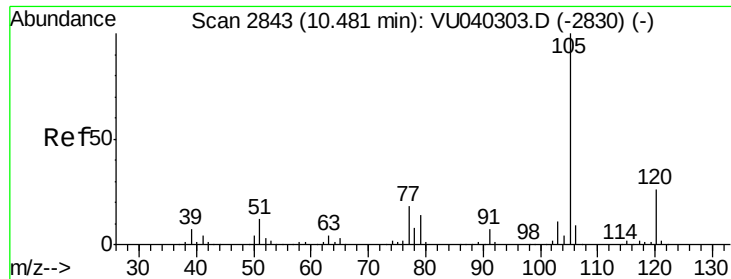
10.00

10.11

10.20

Time-->





#56

Isopropylbenzene

Concen: 17.834 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

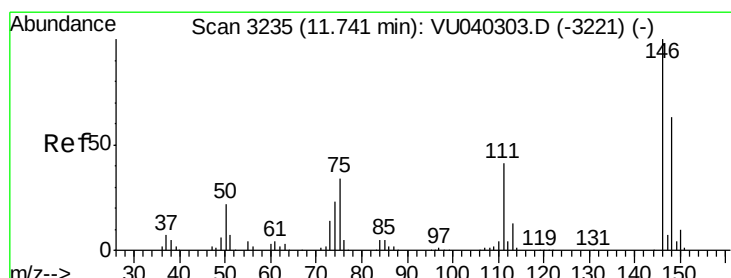
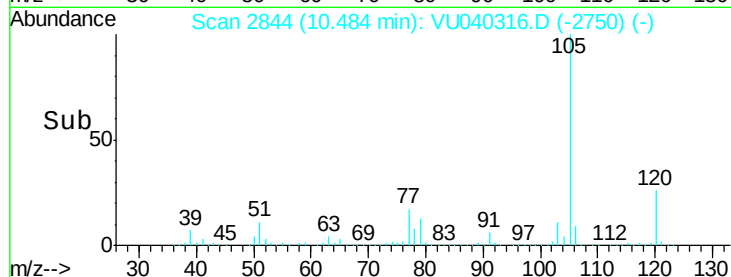
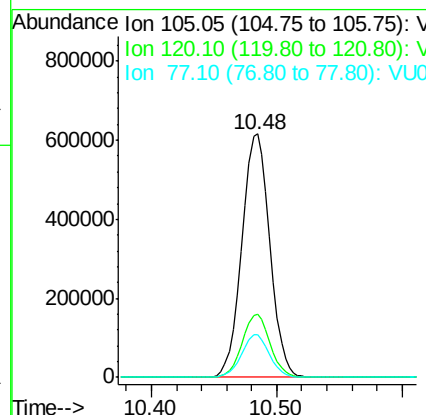
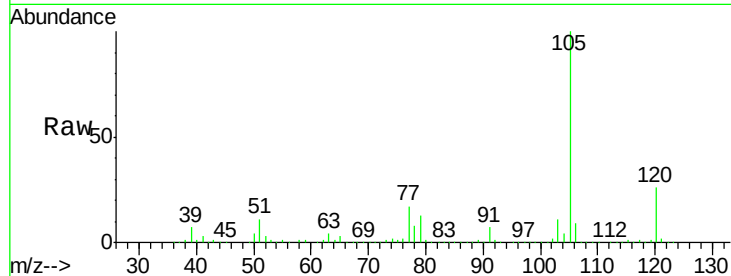
ClientSampled :

BG494

Tot Ion:	105	Resp:	953406
Ion Ratio	Lower	Upper	
105	100		
120	25.8	20.1	30.1
77	17.3	14.4	21.6

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#62

1,3-Dichlorobenzene

Concen: 1.083 ug/L

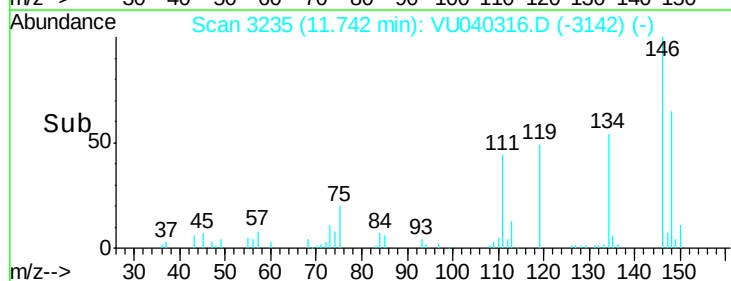
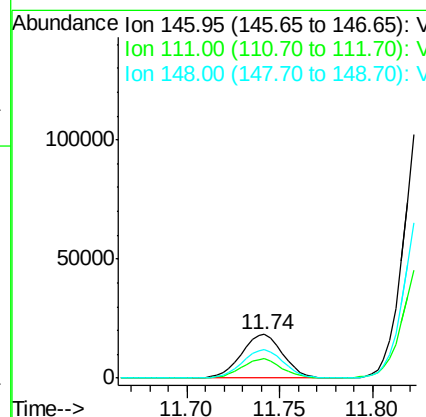
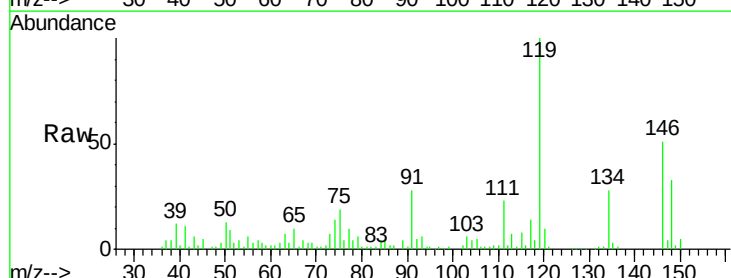
RT: 11.74 min Scan# 3235

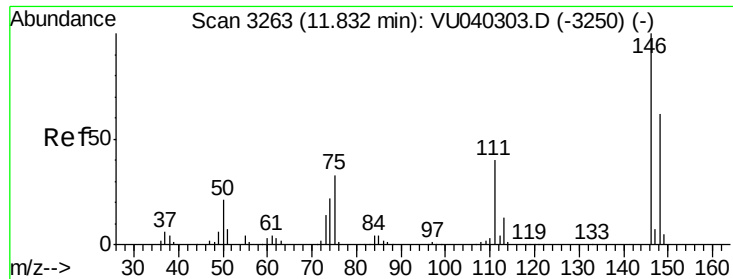
Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Tgt Ion:	146	Resp:	28339
Ion Ratio	Lower	Upper	
146	100		
111	44.5	31.6	58.8
148	64.8	44.2	82.0





#63

1,4-Dichlorobenzene

Concen: 8.654 ug/L

RT: 11.83 min Scan# 3263

Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Instrument :

MSVOA_U

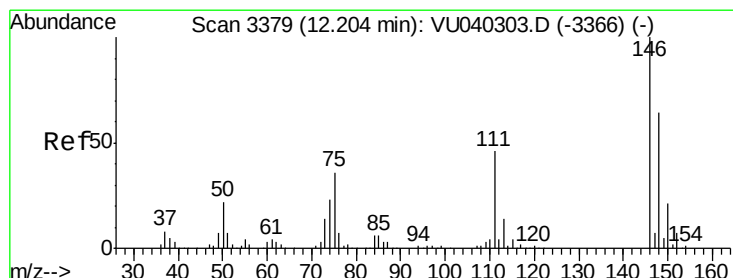
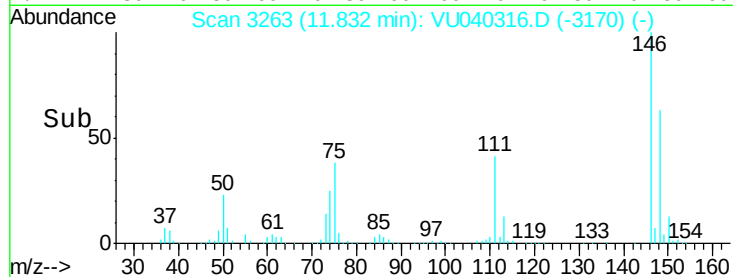
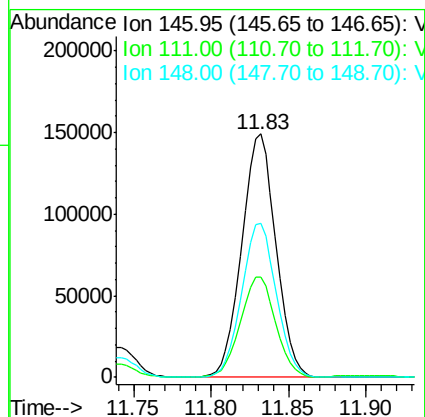
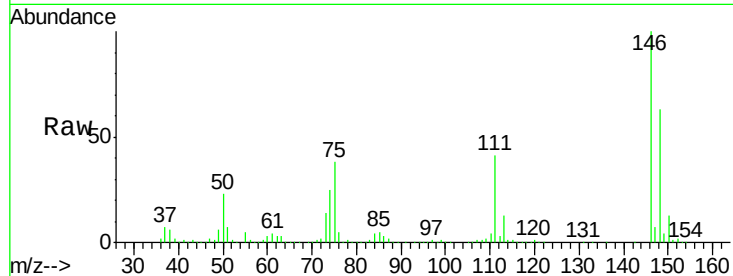
ClientSampleId :

BG494

Tot Ion:	146	Resp:	229239
Ion Ratio	Lower	Upper	
146	100		
111	41.4	30.5	56.7
148	63.5	45.4	84.4

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#65

1,2-Dichlorobenzene

Concen: 11.700 ug/L

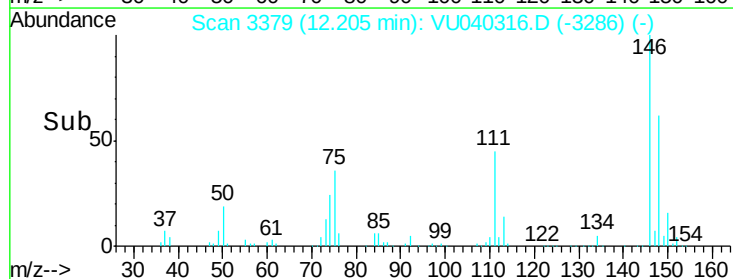
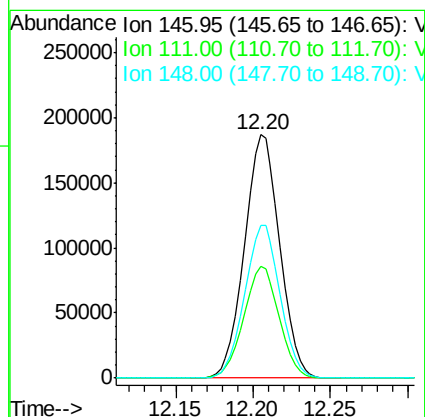
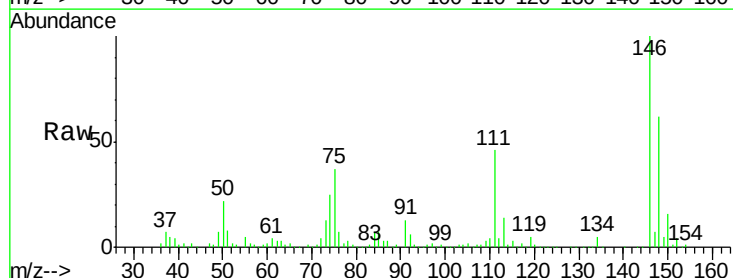
RT: 12.20 min Scan# 3379

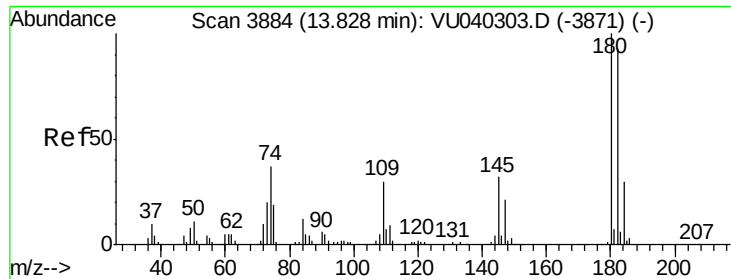
Delta R.T. 0.00 min

Lab File: VU040316.D

Acq: 25 Sep 2020 21:43

Tgt Ion:	146	Resp:	296365
Ion Ratio	Lower	Upper	
146	100		
111	45.8	36.5	54.7
148	62.5	48.6	72.8





#68
 1,2,4-trichlorobenzene
 Concen: 0.121 ug/L
 RT: 13.83 min Scan# 3884
 Delta R.T. 0.00 min
 Lab File: VU040316.D
 Acq: 25 Sep 2020 21:43

Instrument :
 MSVOA_U
 ClientSampleId :
 BG494

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.3	76.0	114.0
145	60.9	28.4	42.6

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